


STUDENTS' LESSONS AND EXAMINATIONS

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Medical Technology Board Examination Review Notes on Clinical Chemistry

  JULY 04, 2018

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CLINICAL CHEMISTRY

The process that encompasses all aspects of laboratory operating including patient identification, specimen collection, equipment maintenance, and the reporting of patient results:

- a. Accuracy
- b. Reliability
- c. Quality assurance
- d. Quality control



The process that monitor's each laboratory analysis, using material with known constituent concentrations, in order to ensure the accuracy of the test results is:

- a. Pooled control
- b. Quality assurance
- c. Quality control
- d. Accuracy monitoring

A technique used to detect unlikely combination of values.

- a. Previous value check
- b. Alert check
- c. Pattern recognition
- d. Randomized duplicate specimens

A mean value of 100 and standards deviation of 1.8 mg/dL were obtained from a set of glucose measurements on a control solution. The 95% confidence interval in mg/dL would be:

- a. 94.6-105.4
- b. 96.4-103.6
- c. 97.3-102.7
- d. 98.2-101.8

The following five sodium control value (mEq/L) were obtained:

140, 135, 138, 140, 142

Calculate the coefficient of variation.

- a. 1.9%
- b. 5.6%
- c. 2.7%
- d. 6.1%

This test is used to compare means between two groups of data.

- a. T-test
- b. Pattern recognition

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LABELS

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c.F-test
d.Average of normal

If the sample population and the method used in the same as those described in the manual, what is the minimum number of individuals that can be tested to obtain the reference range, provided that no more than 2 results outside the expected range?

a. 5
b. 15
c. 10
d. 20

The pairst type of reagent water is:

a.Type I
b.Type II
c.Type III
d.All

Type of extinguisher for Class C fires:

a.Water, dry chemical, loaded stream
b.Carbon dioxide, dry chemical, halon
c.Metal X
d.None

. Chemicals should be stored:

a.Alphabetically, for easy accessibility
b. Inside a safety cabinet with proper ventilation
c.According to their chemical properties and classification
d. Inside a fume hood, if toxic vapors can be released when opened

. 20oC = ___oF

a. 25
b. 53
c. 68
d. 86

. 75oF = ___oC

a. 15.5
b. 21.0
c. 23.8
d. 32.6

. It is used for nonviscous fluid, self-draining; small amount left in the tip should not be blown out.

a. Volumetric pipet
b. Ostwald Folin
c. Micropipattes
d. Pasteur pipet

. The etched rings on the top of a pipette means:

a. The pipette should be allowed to drain and the last drop should remain in the pipette
b. The last drop is to be known out after the pipettes drain
c. The pipette is color coded
d. The pipette is a volumetric pipette

. The preferred length of the lancet for skin puncture should be ___ to avoid penetrating the bone.

a. 1.75 mm
b. 2.0 mm
c. 2.25 mm
d. 2.5 mm

. Specimens that require chilling (4oC)

1. *Ammonia*
2. *Lactic acid*
3. *Blood gases*
4. *Renin*

a. 1 and 3
b. 2 and 4
c. 1, 2 and 3
d. 1, 2, 3 and 4

. A medical technologies on duty in the Clinical Chemistry section received a sterile bottle containing CSF. What should he or she do first?

a. Centrifuge the fluid
b. Measure the volume
c. Put it inside the freezer set at 2o degrees Celsius
d. should verify if it is the only bottle collected from the patient

. Analytical testing performed outside the confines of the central laboratory, usually by nonlaboratorian personnel (nurse, respiratory therapist etc.)

1. *Point of care testing (POCT)*
2. *Decentralized testing*
3. *Near-patient testing*
4. *Alternate site testing*

a. 1 and 3
b. 2 and 4
c. 1, 2 and 3
d. 1, 2, 3 and 4

. Beer’s law states that the concentration of a substance is (1)___ proportional to the amount of light absorbed or (2)___ proportional to the logarithm of the transmitted light.

a. Directly, inversely
b. Inversely
c. Both directly proportional
d. Both inversely proportional

HUNTING (83) HUNTING IN LABRADOR (83)

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LANDSCAPE ARCHITECTS (9)

OPTOMETRISTS (PRACTICAL) (9)

OPTOMETRISTS (WRITTEN) (9)

ADDICTION (9) DRUG REHABS (9)

. The more light absorbed, the higher the concentration of analyte in this technique of measuring the amount of light absorbed by a solution.

- a. Atomic absorption
- b. Fluorometry
- c. Nephelometry
- d. Spectrophotometry

. The process by which fluorescence of an analyte is reduced due to the excited molecule losing some of its energy by interacting with other substances in solution is known as:

- a. Ionization
- b. Quenching
- c. Phosphorescence
- d. Self-absorption

. One sample sequentially following another through the system so that different analytical functions are being carried on simultaneously on more than one sample best describes:

- a. Automatic clinical analysis
- b. Centrifugal analysis
- c. Continuous-flow analysis
- d. Dry-slide analysis

. Direct injection of a sample into very small diameter tubing, thus minimizing lateral diffusion best describes:

- a. Automatic clinical analysis
- b. Centrifugal analysis
- c. Continuous-flow analysis
- d. Flow-injection analysis

. Which analyzer requires that the sample and reagent be pipeted into separate chambers in a rotor prior to the chemical analysis being performed?

- a. Centrifugal
- b. Continuous flow
- c. DuPont aca
- d. Kodak dry, slide

. An instrument that can analyze patient samples for only those tests specifically ordered and can analyze stat samples by interrupting the normal sequence of patient analyses is referred to as:

- a. Batch analyzer
- b. Discrete analyzer
- c. Multitest analyzer
- d. Random-access analyzer

. In a chemical reaction, the amount of product formed is measured at specific intervals during a specified period and then related to the concentration of the analyte in the unknown. This type of measurement is known as:

- a. Colorimetric
- b. End-point
- c. Rate
- d. Ultraviolet

. Dubowski method for glucose utilizes:

- a. Phosphomolybdic acid
- b. Arsenomolybdic acid
- c. Ortho-toluidine
- d. Potassium ferricyanide

. C-peptide is formed during the conversion of pro-insulin to insulin. The amount of circulating C-peptide provides reliable indicators for pancreatic and insulin secretions (beta cell function). It is decreased in:

- a. Insulinoma
- b. Ingestion of hypoglycemic drugs
- c. Type 1 DM
- d. Type 2 DM

. CSF glucose concentration is approximately ___ that of plasma concentration.

- a. 50%
- b. 60-70%
- c. 80-100%
- d. 65-85%

. Every 1% change in the HBA1C value causes a change of approximately ___ in the plasma glucose.

- a. 10 mg/dL
- b. 25 mg/dL
- c. 15 mg/dL
- d. 35 mg/dL

. A turbidimetric method used for the quantitation of total protein in urine and cerebrospinal fluid specimens is:

- a. Biuret
- b. HABA
- c. Coomassie blue
- d. SSA

. Which of the following nutritional markers has been found to be most sensitive and helpful indicator of nutritional status in very ill patients?

- a. Transthyretin
- b. Transferrin
- c. Albumin
- d. Somatomedin C

. Patient with Nephrotic Syndrome is expected to have which of the following results in serum protein electrophoresis?

- MECHANICAL ENGINEERS (9)
- ELECTRONICS TECHNICIANS (8)
- INTERIOR DESIGNERS (8)
- SOCIAL WORKERS (8)
- X-RAY TECHNOLOGISTS (8)
- CRIMINOLOGISTS (8) ARCHITECTS (7)
- ELECTRONICS ENGINEERS (7)
- FISHERIES TECHNOLOGISTS (7)
- GEOLOGISTS (7)
- METALLURGICAL ENGINEERS (7)
- RADIOLOGIC TECHNOLOGIST (7)
- CHEMICAL ENGINEERS (7) DRUGS (7)
- WEIGHT LOSS PROGRAM (7)
- AGRICULTURISTS (6)
- DENTISTS (PRACTICAL) (6)
- GEODETIC ENGINEERS (6)
- NUTRITIONISTS-DIETITIANS (6)
- AUTOMOTIVE INDUSTRY (6)
- BREEDING STRATEGIES (6) DECOYS (6)
- HOME MORTGAGE (6)
- MECHANICAL DECOYS (6)
- MOTION DECOYS (6)
- PERSONAL HEALTH (6) REFINANCING (6)
- SUGAR GLIDERS (6)
- TIPS IN LOSING WEIGHT (6)
- TIPS IN SOUND THERAPY (6)
- WEIGHT LOSS (6) WORDPRESS (6)
- CERTIFIED PLANT MECHANICS (5)
- OCULAR PHARMACOLOGISTS (5)
- RADIOLOGIC TECHNOLOGISTS (5)
- ADVENTURE (5) BUSINESS (5)
- CARIBOU HUNTING (5) CHEMISTS (5)
- CIVIL ENGINEERS (5) E-COMMERCE (5)
- FORESTERS (5) LEGAL (5)
- LIFE COACHES (5)
- AERONAUTICAL ENGINEERS (4)
- BUSINESS MANAGEMENT (4)
- CERTIFIED PLANT MECHANICS (CPM) (4)
- CUSTOMS BROKERS (4)
- LET BOARD EXAM (4)
- MARINE ENGINEERS (4)
- METALLURGICAL ENGINEERS (COMPUTER-BASED EXAM)
- NAVAL ARCHITECTS (4)
- OCULAR PHARMACOLOGY (4)
- REAL ESTATE APPRAISERS (4)
- REGISTERED ELECTRICAL ENGINEERS (4)
- REGISTERED MASTER ELECTRICIANS (4)
- RESPIRATORY THERAPISTS (4)
- DOG TRAINER (4) MIDWIVES (4)
- NATURAL MOTION DECOYS (4)
- PRESTASHOP (4)
- AGRICULTURAL ENGINEERS (3)
- ELECTRONICS TECHNICIAN (3)
- MARINE ENGINEER OFFICERS (WRITTEN) (3)
- METALLURGICAL ENGINEERS (WES) (3)
- REAL ESTATE CONSULTANTS (3) BIKING (3)
- BIRD HUNTING (3) BUSINESS TIPS (3)
- CRIMINOLOGY (3) DOMAIN NAMES (3)
- FORECLOSURE (3) FOREX (3)
- LIVE FOR GOD (3) MOVING (3)
- MUSIC THERAPY (3) OVERWEIGHT (3)

- a. Decreased in all fractions except albumin region
b. Decreased in all fractions except alpha 1 region
c. Decreased in all fractions except alpha 2 region
d. Decreased in all fractions except beta region
- . Decreased serum albumin levels may be associated with:
a. Malnutrition
b. Liver disease
c. Kidney disease
d. Both B and C
e. A, B and C
- . Which of the following is a negative acute phase reactant?
a. Prealbumin
b. Ceruloplasmin
c. Albumin
d. Haptoglobin
- . A protein that precipitates in acid solution but redissolves upon heating best describes:
a. Albumin
b. Bence Jones
c. Haptoglobin
d. Transferrin
- . Which dye may be used to stain serum protein fractions following electrophoresis?
a. Amido black
b. Ponceau S
c. Fat red
d. Both A and B
e. A, B and C
- . The method of choice for quantifying protein fractions following electrophoresis?
a. Densitometry
b. Fluorometry
c. Spectrophotometry
d. Nephelometry
- . The acute-phase reactant that is able to inhibit enzymatic proteolysis is:
a. Alpha1 antitrypsin
b. Complement
c. Haptoglobin
d. Prealbumin
- . The screening procedure useful in detecting PKU is:
a. Copper reduction
b. Glucose oxidase
c. Ferric chloride
d. Nitroprusside
- . Which of the following elevates carboxyhemoglobin?
a. Nitrite poisoning
b. Exposure to carbon monoxide
c. Sulfa drug toxicity
d. Sick cell anemia
- . CDC reference method for determination of cholesterol:
a. Liebermann Burchardt reaction
b. Salkowski reaction
c. Cholesterol oxidase reaction
d. Abell, Levy and Brodie method
- . When TAG and LDL-c are being measured, fasting becomes a requirement. Require fasting of patients:
a. 2 to 4 hours
b. 4 to 6 hours
c. 6 to 8 hours
d. 12 to 14 hours
- . A cholesterol QC chart has the following data for the normal control:
x = mean of data
x = 137 mg/dL Sx = 1,918 mg/dL
2 SD = 6 mg/dL N = 14
- The coefficient of variation for this control is:
a. 1.14%
b. 4.38%
c. 2.19%
d. 9.49%
- . The function of the major lipid components of the very low density lipoproteins (VLDL) is to transport:
a. Cholesterol from peripheral cells to the liver
b. Exogenous triglycerides
c. Cholesterol and phospholipids to peripheral cells
d. Endogenous triglycerides
- . What is the reference method for quantitation of lipoproteins (LPPs)
a. Liberman Burchardt
b. Van Handel and Zilversmith
c. Abell-Kendall
d. Ultracentrifugation
- . Which of the following lipoproteins is the smallest of all the lipoproteins and is composed of 50% proteins?
a. HDL
b. LDL
c. Chylomicrons
d. Triglycerides

PERFUME	(3)
SENATE OF THE PHILIPPINES	(3)
WEBSITE DESIGN	(3)
AGENCYBLOC SOFTWARE CUSTOMER RELATIONSHIP MANAGEMENT ALSAMARKETING MARKETING AUTOMATION SOFTWARE CERTIFIED PUBLIC ACCOUNTANTS (SPLBE)	(2)
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GAMING	(2)
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JANET LIM NAPOLES	(2)
LIFE IS GOOD	(2)
LIVE FOR OTHERS	(2)
LIVE YOUR PASSION	(2)
LIVING A LIFE	(2)
MARRIAGE	(2)
MBA	(2)
MENTORSHIP	(2)
MOTIVATION	(2)
MUSIC	(2)
OPENCART	(2)
PERSONAL	(2)
PERSONAL HYGIENE	(2)
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PROFESS	(2)
RELATIONSHIP	(2)
SEX	(2)
SOCIAL MEDIA	(2)
STOCK DESCRIPTIONS	(2)
TAX PLANNING	(2)
TAXATION	(2)
TOP 10 JOBS	(2)
TROUT FISHING	(2)
WEBSITE DEVELOPMENT	(2)
XBOX	(2)
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. It is the major and product from the cetabolism of VLDL. It constitutes about 50% of the total LPP in plasma:

- a. CM
- b. LDL
- c. VLDL
- d. HDL

. Which of the following would be most adversely affected by a nonfasting sample?

- a. HDL
- b. Cholesterol
- c. LDL
- d. Triglycerides

. Method of uric acid determination that has problem with turbidity and several common drugs interface:

- a. Colorimetric
- b. Enzymatic H2O2
- c. Enzymic UV
- d. IDMS

. Method of urea determination that is inexpensive but lacks specificity:

- a. Colorimetric and point
- b. Enzymatic
- c. Colorimetric kinetic
- d. IDMS

. Method of measurement of ceratinine that measures ammonia colorimetrically or with ISE:

- a. Colorimetric and point
- b. Enzymatic
- c. Colorimetric kinetic
- d. IDMS

. One international unit of enzyme activity is the amount of enzyme that under specified reaction conditions of substrate concentration, pH and temperature, causes usage of substrate at the rate of:

- a. 1 millimole/min
- b. 1 nanomole/min
- c. 1 micromole/min
- d. 1 picomole/min

. Which of the following enzymes are classified as transferases?

- 1. ACP
 - 2. ALP
 - 3. PK
 - 4. Glycogen phosphorylase
- a. 1, 2, 3 and 4
 - b. 1, 2 and 4
 - c. 1, 2 and 3
 - d. 1 and 2
 - e. 3 and 4

. This measures the amount of reducing sugars produced by the hydrolysis of starch by the usual glucose methods. Classic reference method expressed in Somogyi units

- a. Saccharogenic
- b. Chromogenic
- c. Amyloclastic
- d. Coupled-enzyme

. The reference method for determination of lipase:

- a. Tietz and Fiereck
- b. Peroxidase coupling
- c. Cherry Crandal
- d. Kermen

. When an enzyme requires an inorganic substance such as zinc for activity, this substance is termed as a(n):

- a. Activator
- b. Conezyme
- c. Facilitator
- d. Regulator

. Which of the following are considered primary tissue source of alkaline phosphatase?

- a. Liver, bone, kidney
- b. Liver, heart, kidney
- c. Kidney, pancreas, heart
- d. Prostate, liver, bone

. Which of the following enzymes exhibits the least tissue specificity?

- a. ACP
- b. AST
- c. CK
- d. LD

. Which of the following may be associated with the creatine kinase isoenzymes?

- a. CK-1 referred to as CK-MM
- b. CK-3 remains close to the origin during electrophoresis
- c. CK-MM is found in skeletal muscles
- d. Both B and C
- e. A, B and C

. Which of the following enzymes is most useful in establishing the hepatic origin of an elevated serum alkaline phosphatase?

- a. Alanine aminotransferase
- b. Aspartate aminotransferase

Civil Service Examination Review Notes 6 - Answer ...

Civil Service Examination Notes 5

Civil Service Examination Review Notes 4

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► 2013 (863)

- c. Ornithine carbamyltransferase
 - d. Gamma-glutamyltranspeptidase
 - e. Lactate dehydrogenase
- . In the Bessey-Lowry-Brock method for determining alkaline phosphatase activity, the substrate used is:
- a. Monophosphate
 - b. Phenylphosphate
 - c. Disodium phenylphosphate
 - d. Para-nitrophenylphosphate
- . Regan isoenzyme has the same properties as alkaline phosphatase that originates in the:
- a. Skeleton
 - b. Intestine
 - c. Kidney
 - d. Placenta
- . Which of the following may be classified as being a function of the liver?
- a. Detoxification of drugs
 - b. Excretion of bile acids
 - c. Metabolism of glucose
 - d. Synthesis of proteins
 - e. All of the above
- . Increased blood ammonia levels may be associated with:
- a. Hepatic encephalopathy
 - b. Neurological changes
 - c. Coma
 - d. Both B and C
 - e. A, B and C
- . Which of the following methods estimates the urine sugar concentration by measuring total reducing substances?
- a. Copper sulfate
 - b. Glucose oxidase
 - c. Hexokinase
 - d. Ferricyanide
- . A patient with insulinoma may exhibit dizziness and fainting attributable to:
- a. Acidosis
 - b. Ketosis
 - c. Hypoglycemia
 - d. Hyperglycemia
- . Precipitating agents used to remove VLDL and HDL from serum so that only the HDL cholesterol remains for measurement include all of the following, except:
- a. Citrate/fluoride
 - b. Heparin/manganese
 - c. Phosphotungstate/magnesium
 - d. Dextran sulfate
- . Which electrolyte is significantly involved in the transmission of nerve impulse?
- a. Iron
 - b. Phosphorus
 - c. Potassium
 - d. Sodium
- . The composition of the electrode used to measure blood pH is:
- a. Glass
 - b. Plastic
 - c. Platinum
 - d. Valinomycin
- . The role of calcium in body metabolism is that of:
- a. Structural contribution to bone formation
 - b. An activator of the coagulation system
 - c. Facilitating transmission form of nerve impulse
 - d. Both A and B
 - e. A, B and C
- . The physiologically active form of calcium is:
- a. Complexes
 - b. Ionized
 - c. Lipid-bound
 - d. Protein-bound
- . A hospitalized patient is experiencing increased neuromuscular irritability (tetany). Which of the following tests should be ordered immediately?
- a. Calcium
 - b. Phosphorus
 - c. BUN
 - d. Glucose
- . The formation of molybdenum blue complex is associated with the quantitation of:
- a. Calcium
 - b. Iron
 - c. Magnesium
 - d. Phosphate
- . Which of the following clinical disorders is/are associated with magnesium deficiency?
- a. Tetany
 - b. Convulsions
 - c. Abnormal cardiac rhythm

- d. Both A and B
 - e. All of the above
- . Increased anion gap:
- 1. Uremia
 - 2. Poisoning by methanol
 - 3. Ketoacidosis
 - 4. Hypoalbuminemia
- a. 1 and 3
 - b. 2 and 4
 - c. 1, 2 and 3
 - d. 1, 2, 3 and 4
- . Glucose tolerance factor contains the following trace metal:
- a. Copper
 - b. Chromium
 - c. Selenium
 - d. Zinc
- . The following metal is most associated with the “dementia of dialysis”:
- a. Aluminum
 - b. Fluorine
 - c. Cadmium
 - d. Zinc
- . An emphysema patient suffering from fluid accumulation in the alveolar spaces is likely to be in what metabolic state?
- a. Respiratory acidosis
 - b. Metabolic acidosis
 - c. Respiratory alkalosis
 - d. Metabolic alkalosis
- . The neurohypophysis is the:
- a. Hypothalamus
 - b. Anterior pituitary
 - c. Pineal gland
 - d. Thyroid gland
 - e. Posterior pituitary
- . The anterior pituitary produces all of the following hormones, except:
- a. ACTH
 - b. FSH
 - c. PTH
 - d. TSH
- . For a hormone to be biochemically active and able to bind its receptor site, the hormone must be:
- a. Bound to glucose
 - b. Bound to lipoprotein
 - c. Bound to protein
 - d. Free, not bound to protein
- . Which amino acid is directly involved in thyroid synthesis?
- a. Alanine
 - b. Glutamine
 - c. Threonine
 - d. Tyrosine
- . TSH test is the most important thyroid function test. The best screening test. It is increased in:
- 1. primary hypothyroidism
 - 2. hashimoto’s thyroidism
 - 3. thyrotoxicosis due to pituitary tumor
 - 4. primary hyperthyroidism
- a. 1 and 3
 - b. 2 and 4
 - c. 1, 2 and 3
 - d. 1, 2, 3 and 4
- . In patients with developing subclinical hyperthyroidism, TSH levels will likely be ____, and fT4 will be likely ____.
- a. Decreased, increased
 - b. Increased, decreased
 - c. Decreased, normal
 - d. Increased, normal
- . Which of the following tests may be used in the differential diagnosis of depression?
- a. ACTH stimulation test
 - b. Dexamethasone suppression test
 - c. Metapirone inhibition test
 - d. Metyrapone inhibition test
- . The parent substance in the biosynthesis of androgens and estrogen is:
- a. Cortisol
 - b. Catecholamines
 - c. Progesterone
 - d. Cholesterol
- . The biologically most active, naturally occurring androgen is:
- a. Androstenedione
 - b. Epiandrosterone
 - c. Dehydroepiandrosteron
 - d. Testosterone
- . The amino acid that is the immediate precursor for the biogenesis of the catecholamine is:
- a. Tryptophan
 - b. Threonine
 - c. Tyrosine

- d. Phenylalanine
- . All of the following biochemical changes are seen during pregnancy, except:
 - a. Decreased albumin
 - b. Increased alkaline phosphatase
 - c. Increased FSH and LH
 - d. Increased estrogens
- . Major actions of angiotensin II include:
 - a. Increased pituitary secretion of rennin
 - b. Increased parathyroid hormone secretion by the parathyroid
 - c. Increased vasoconstriction
 - d. Decreased adrenal secretion of aldosterone
- . Estrogen and progesterone receptor assays are useful in assessing prognosis in which of the following?
 - a. Ovarian cancer
 - b. Endometriosis
 - c. Breast cancer
 - d. Amenorrhea
- . Zinc protoporphyrin or free erythrocyte protoporphyrin measurements are useful to assess blood concentrations of:
 - a. Lead
 - b. Mercury
 - c. Arsenic
 - d. Beryllium
- . Pharmacological parameters that determine serum drug concentration:
 - 1. Liberation
 - 2. Absorption
 - 3. Distribution
 - 4. Metabolism
 - 5. Excretion
 - a. 1 and 3
 - b. 2 and 4
 - c. 1, 2, 3 and 4
 - d. 1, 2, 3, 4 and 5
- . A cardiac glycoside that is used in the treatment of congenital heavy failure and arrhythmias by increasing the force and velocity of myocardial contraction is:
 - a. Digoxin
 - b. Acetaminophen
 - c. Lithium
 - d. Phenytoin
- . It is used for treatment of petit mal (absence seizure) and grand mal.
 - a. Theophylline
 - b. Lithium
 - c. Valproic acid (Depakene)
 - d. Digoxin
- . The drug of choice for controlling petit mal (absence seizure).
 - a. Phenobarbital
 - b. Carbamazepine
 - c. Vancomycin
 - d. Ethosuximide (Zarontin)
- . All of the following may be used to cleanse the skin when drawing blood for ethanol analysis, except:
 - a. Alcohol swab
 - b. Merthiolate
 - c. Soap and water
 - d. Zephiran
- . Substances with modified structures that are analogs of prescription pharmaceuticals or abused are known as:
 - a. Designer drugs
 - b. Generic drugs
 - c. Trade drugs
 - d. Toxic drugs
-). Morphine is the major metabolism of:
 - a. Cocaine
 - b. Heroin
 - c. Marijauna
 - d. Phnecyclidine

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